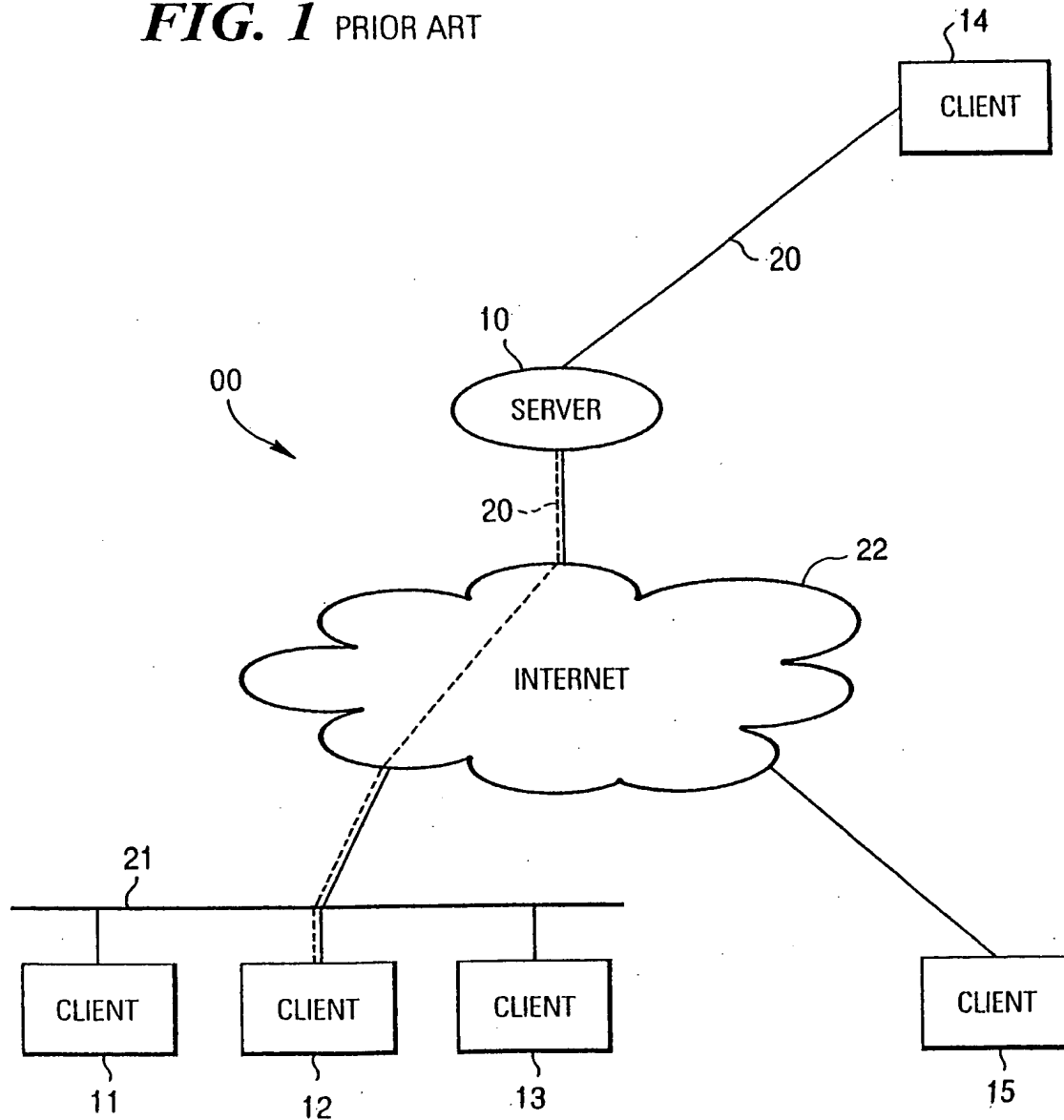


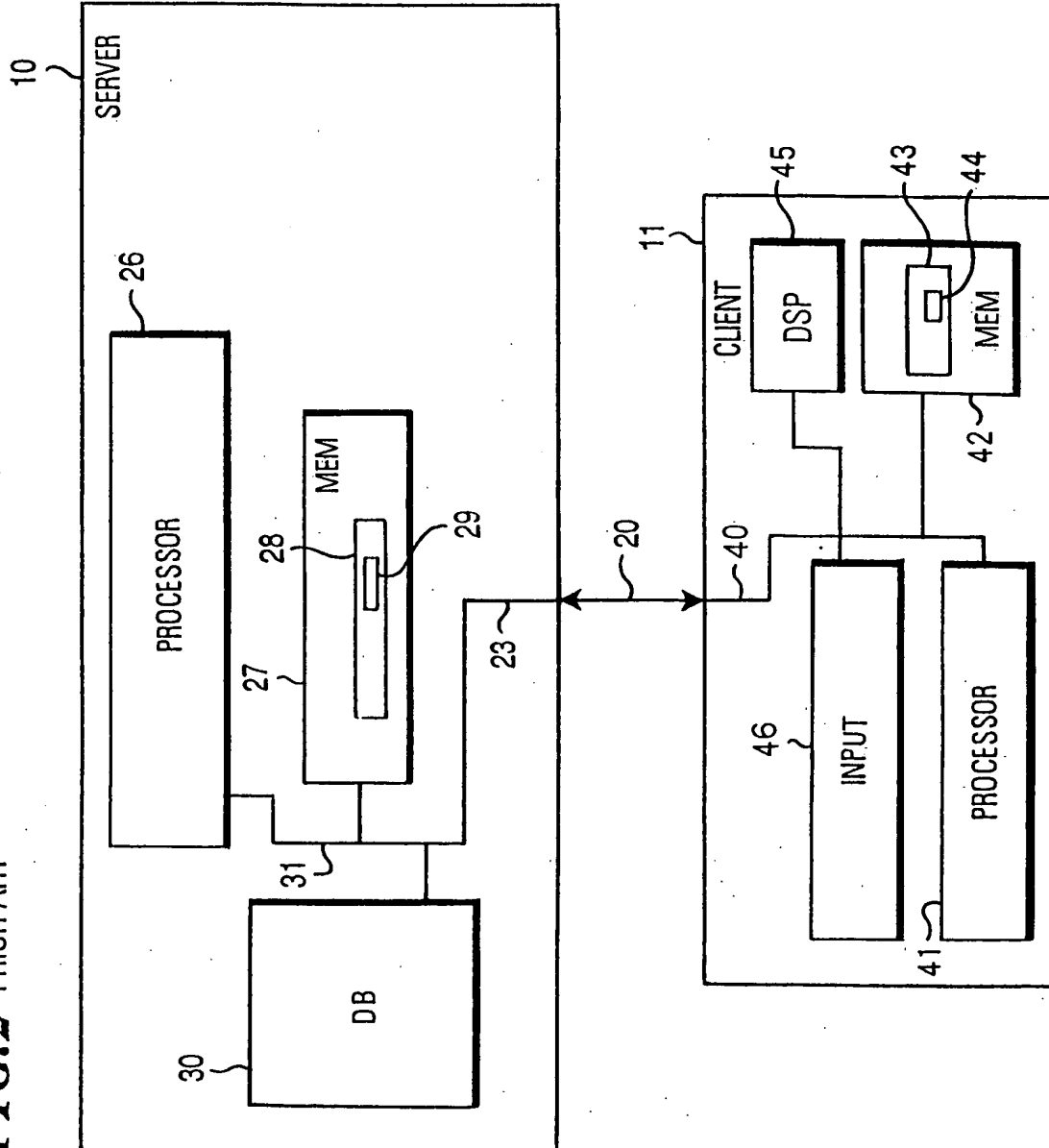
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FIG. 1 PRIOR ART



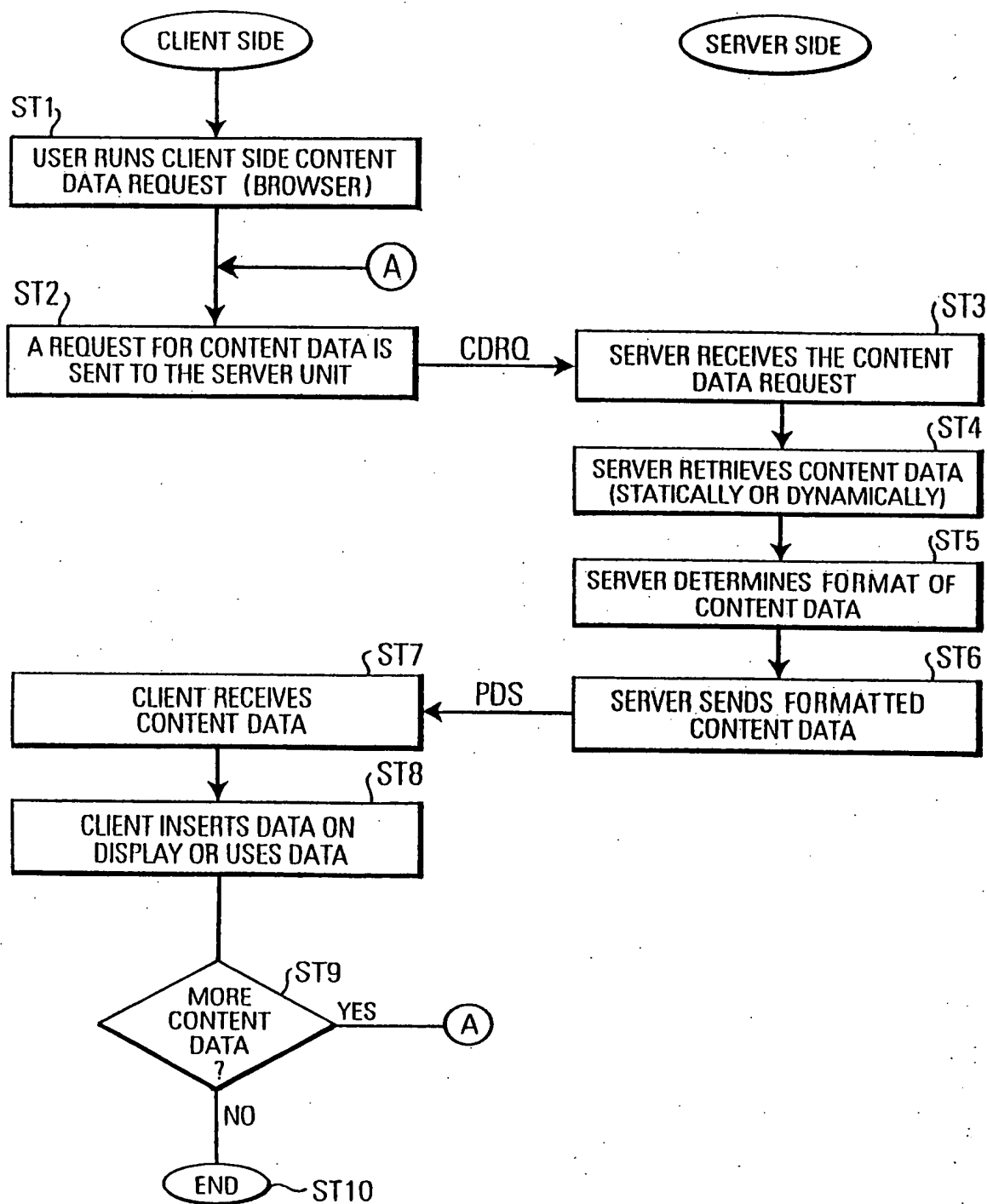
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FIG.2 PRIOR ART



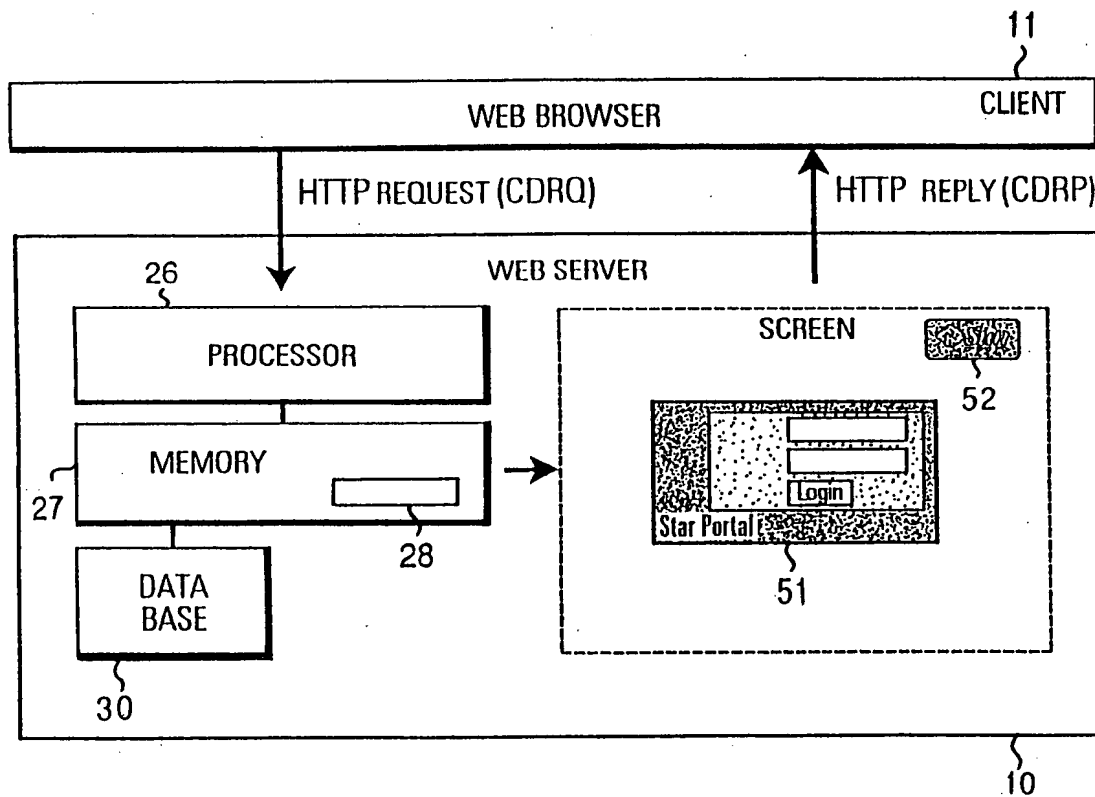
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FIG.3 PRIOR ART



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FIG. 4 PRIOR ART



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FIG. 5a

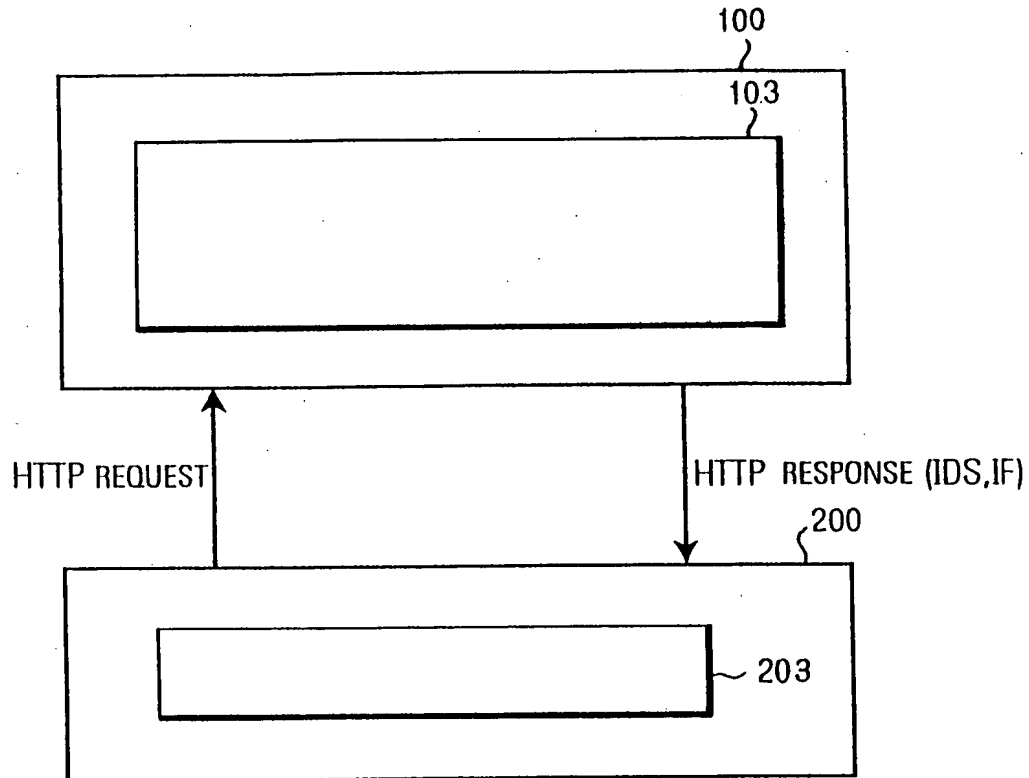
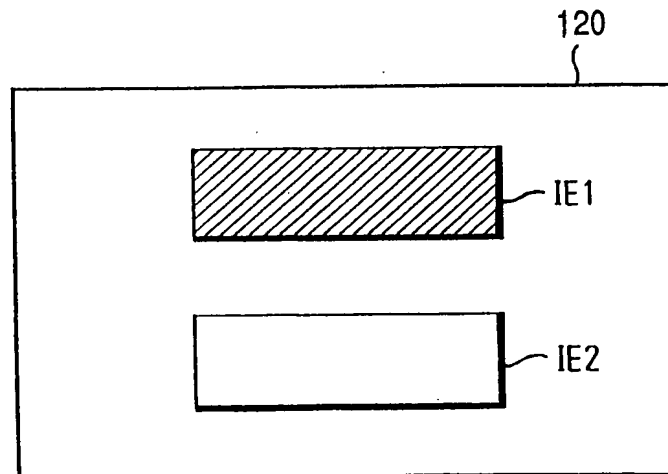


FIG. 5c



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FIG. 5b

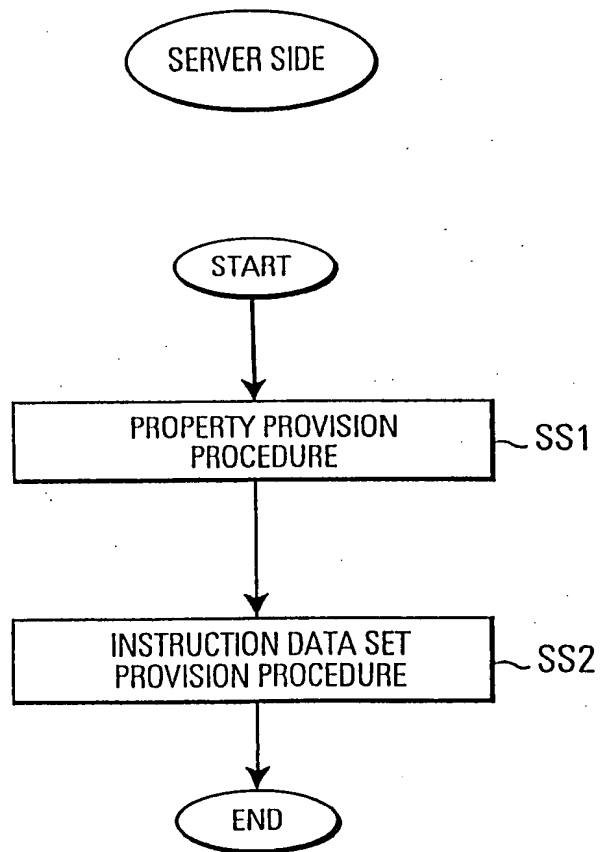
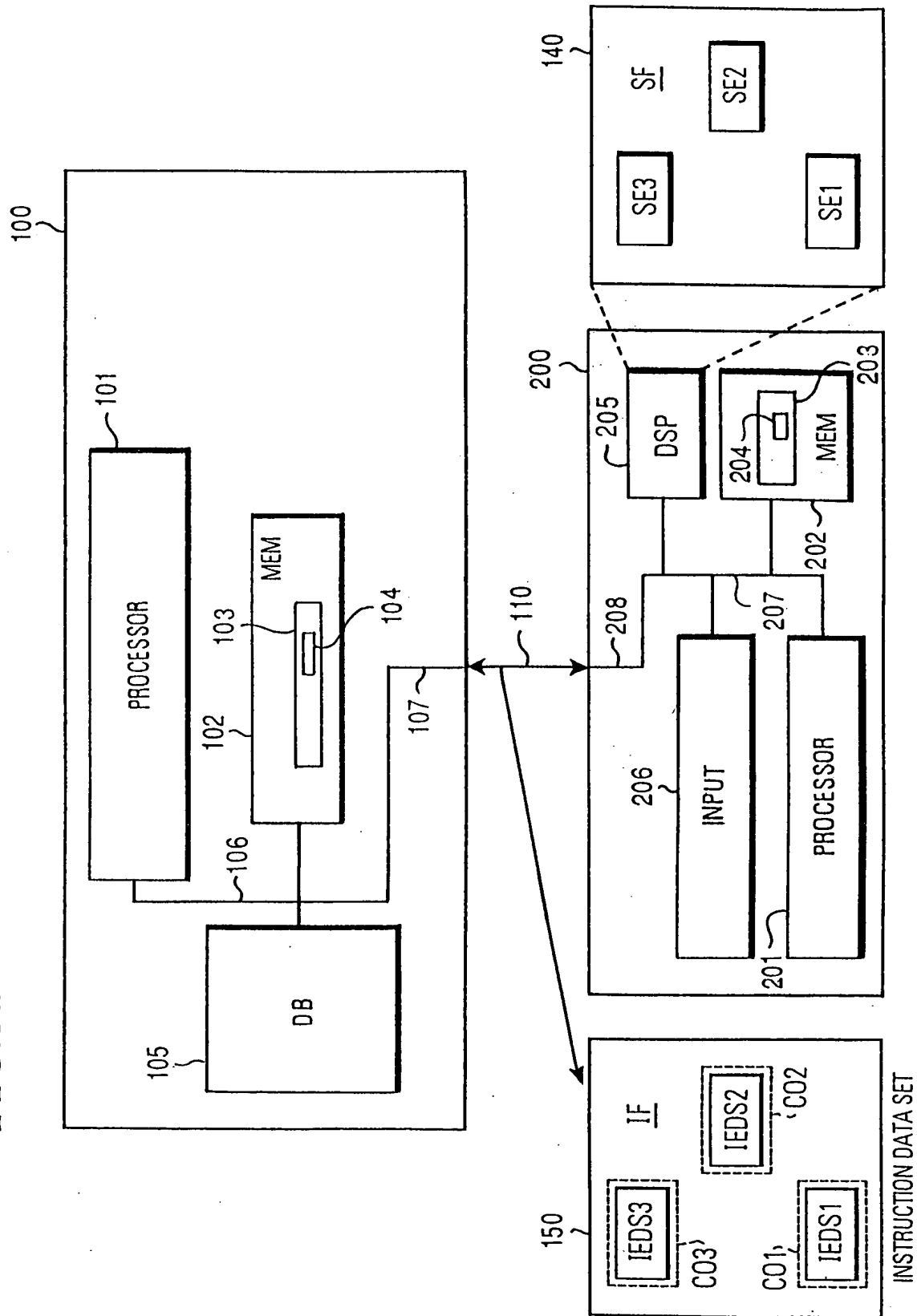
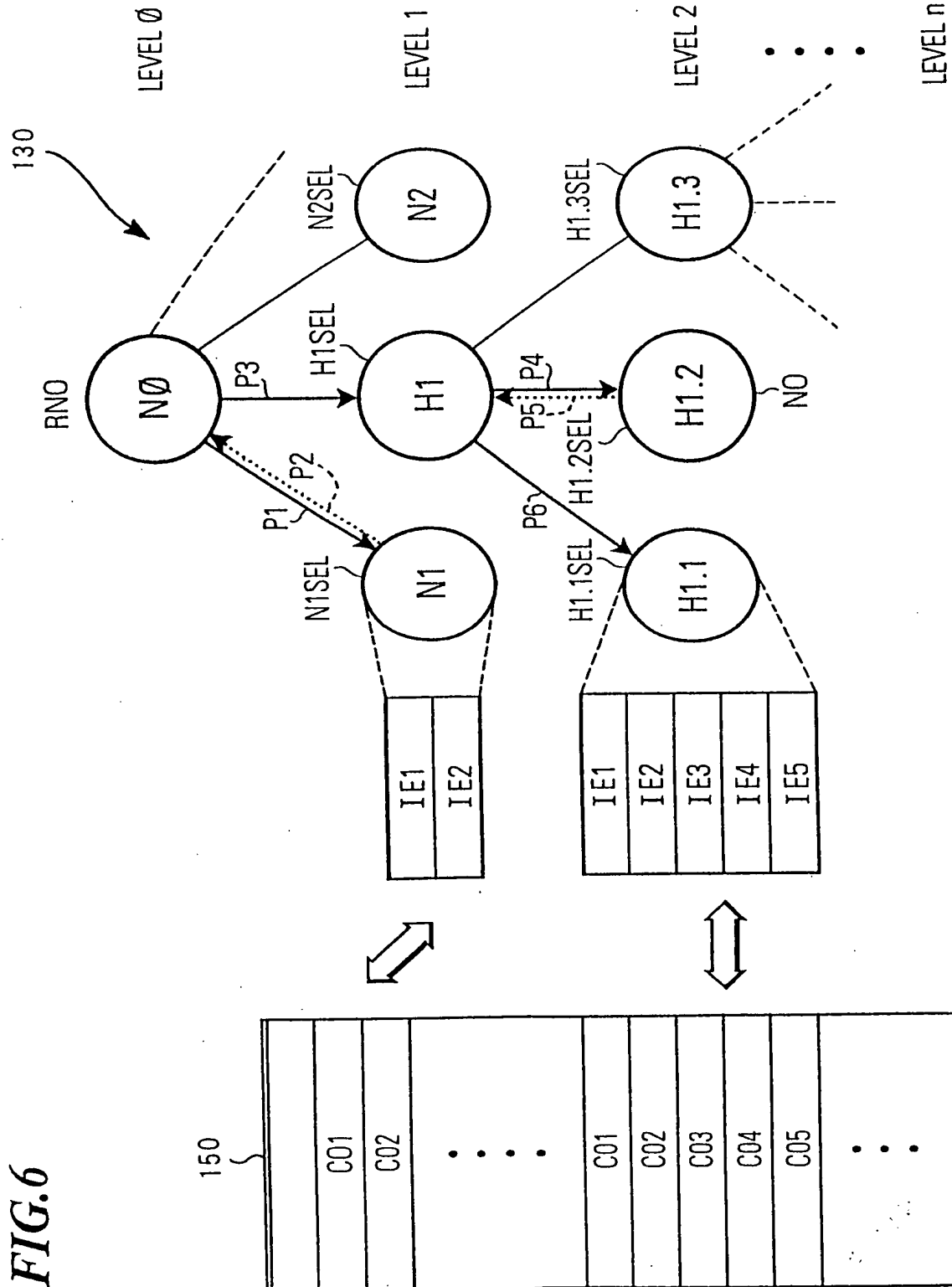


FIG. 5d

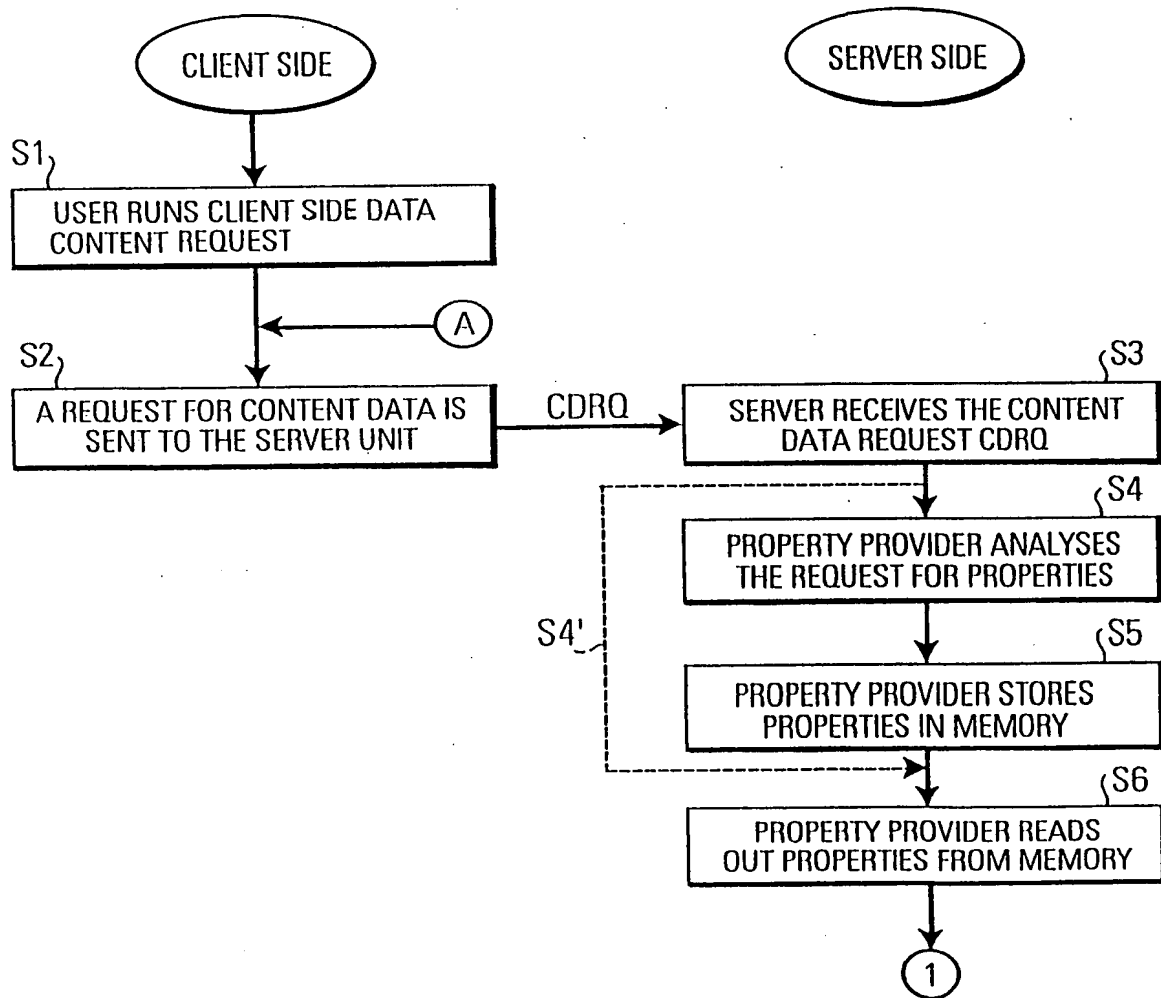


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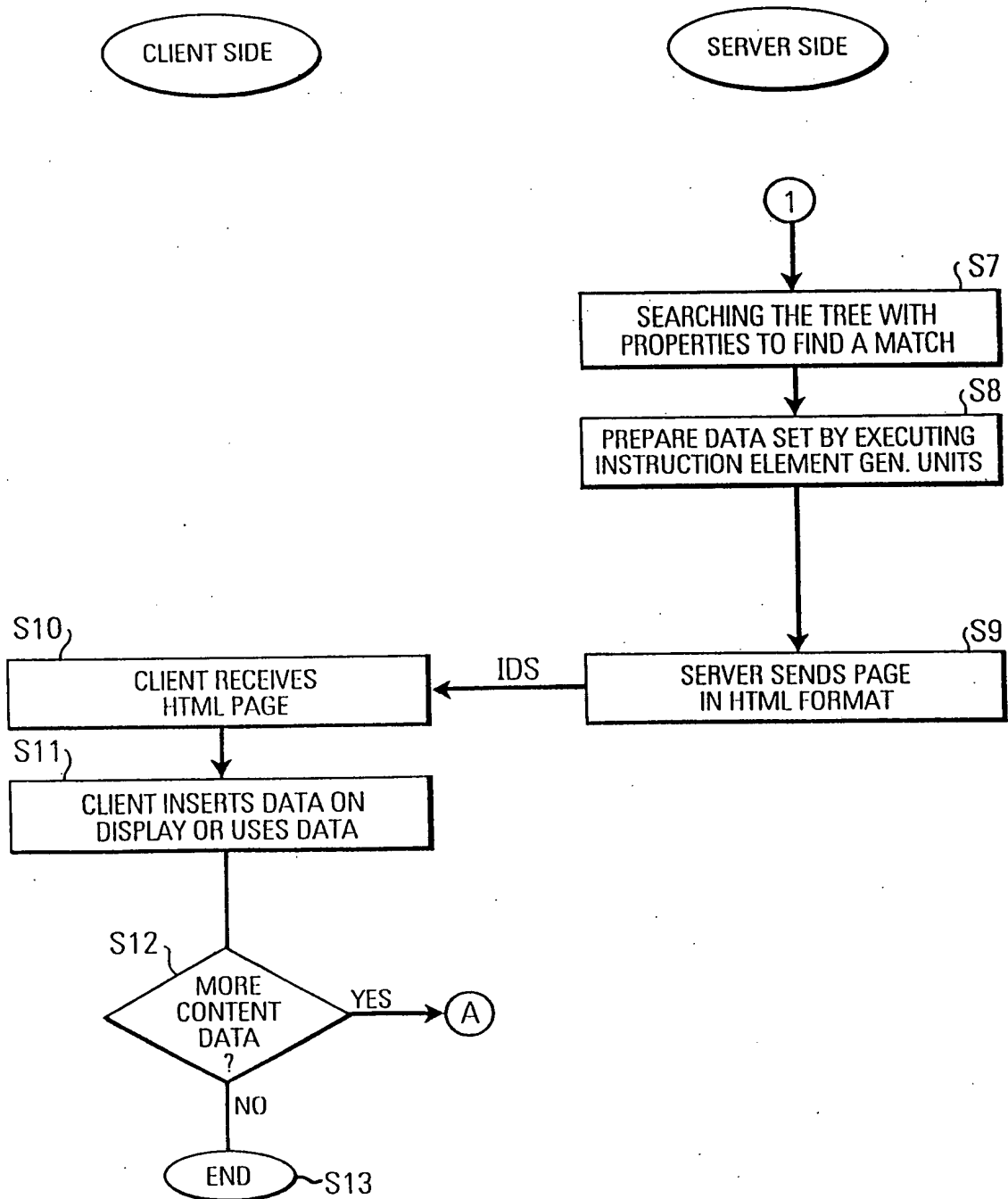
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FIG. 7a



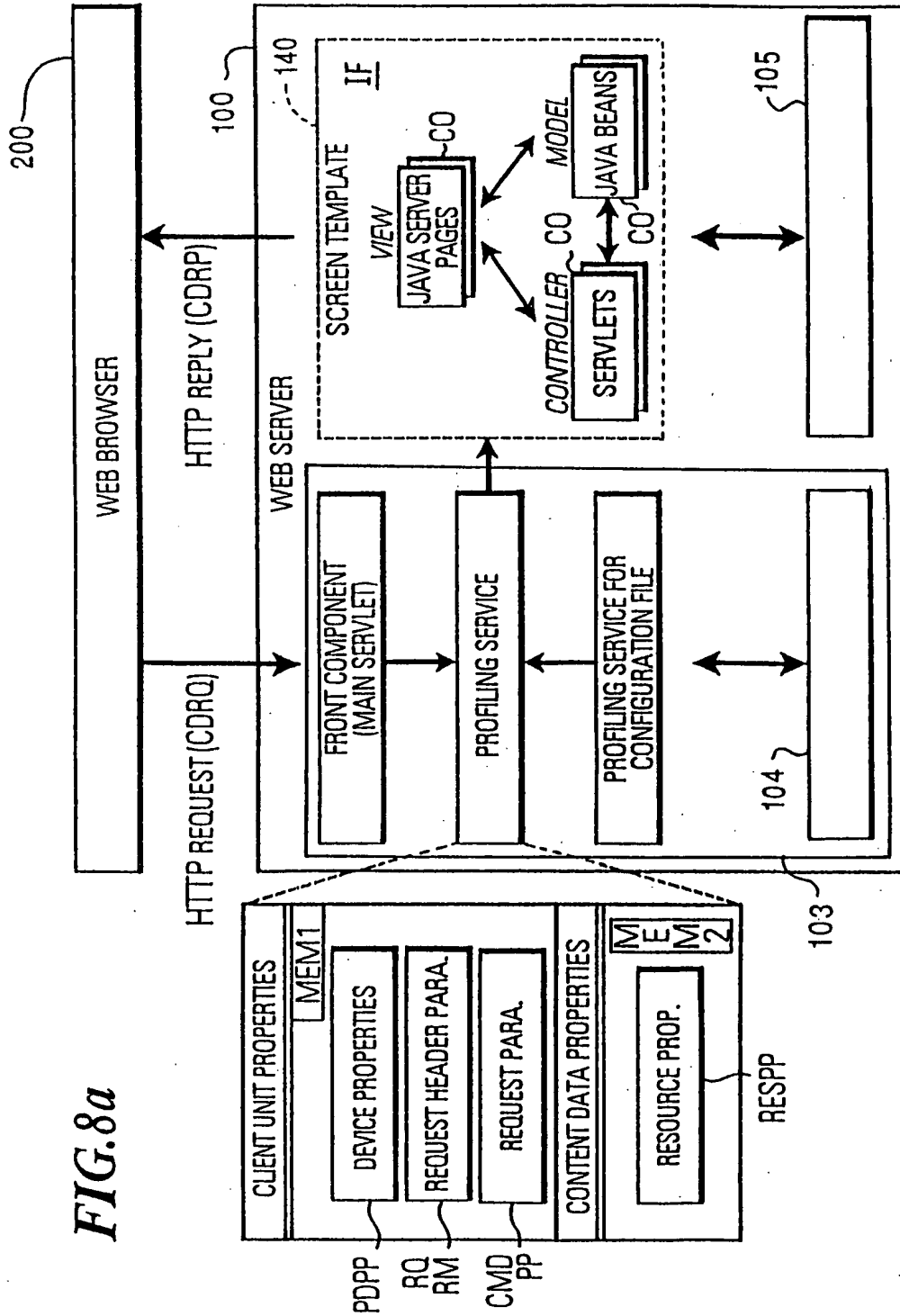
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FIG. 7b



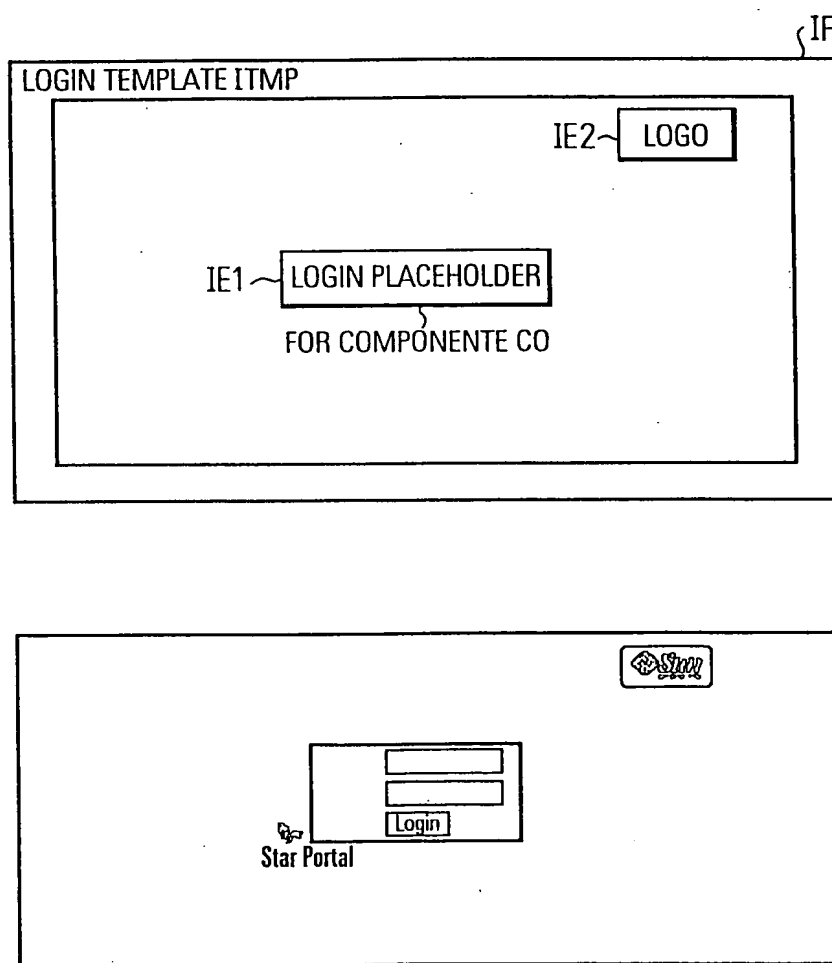
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FIG. 8a



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FIG. 8b



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FIG. 8c

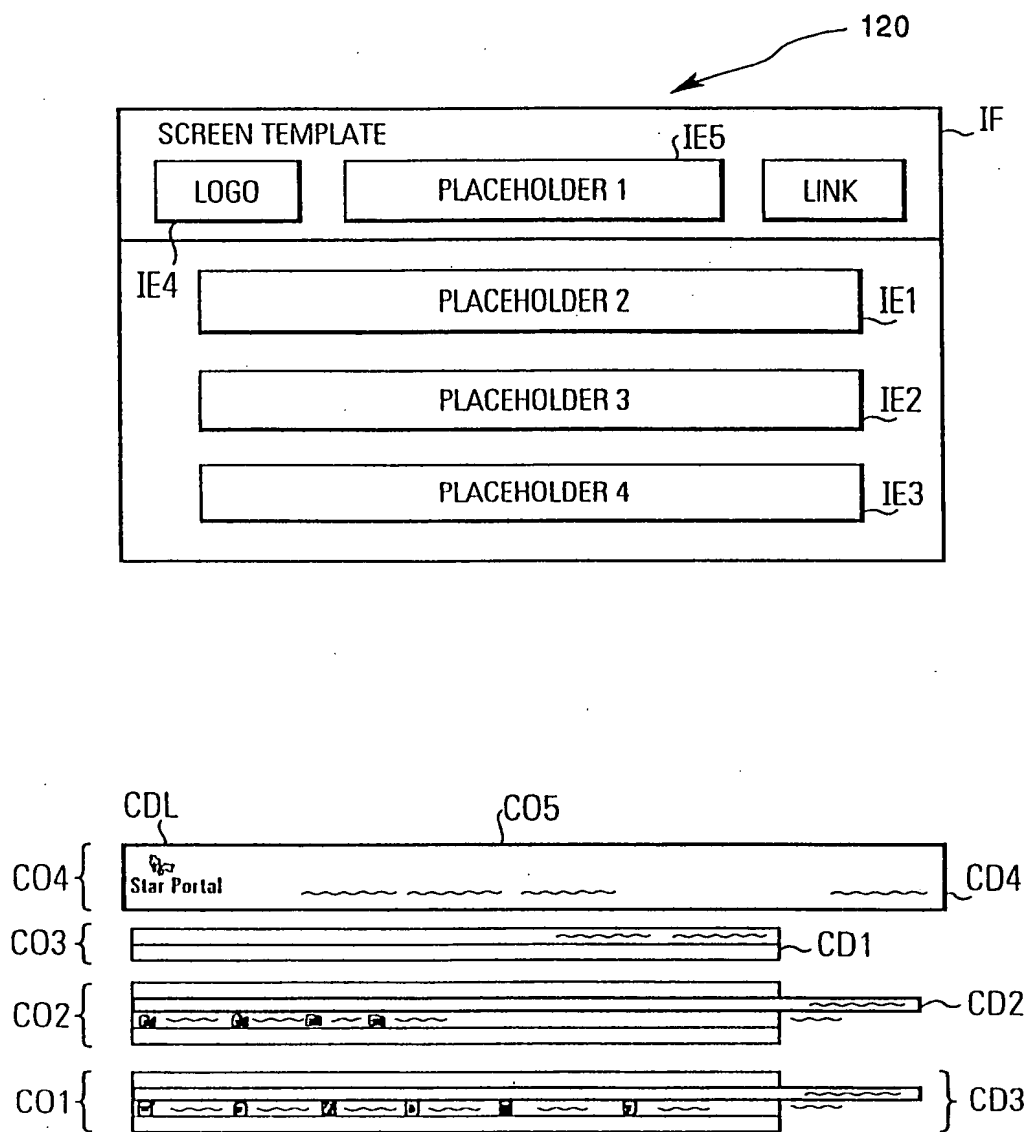
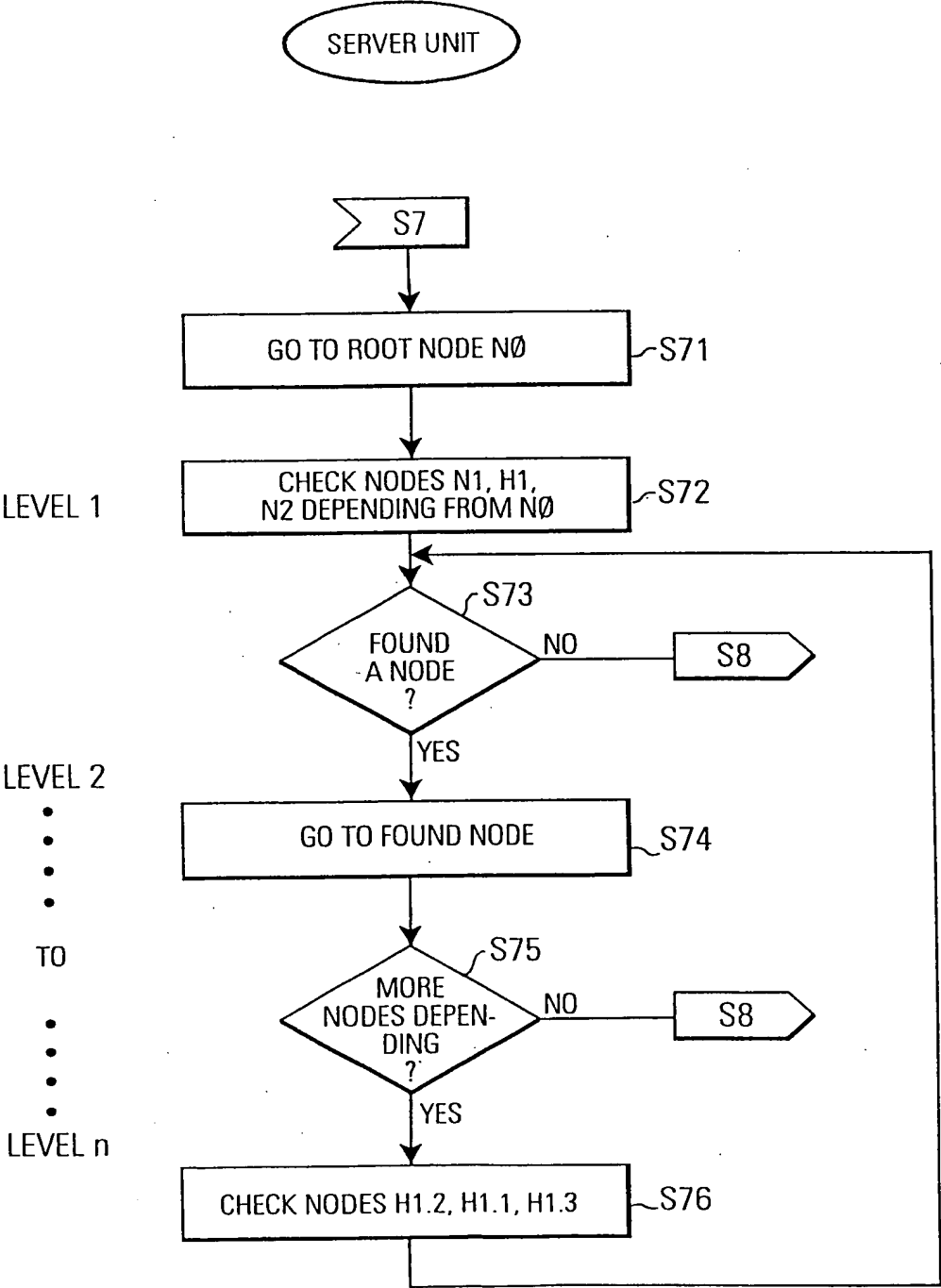
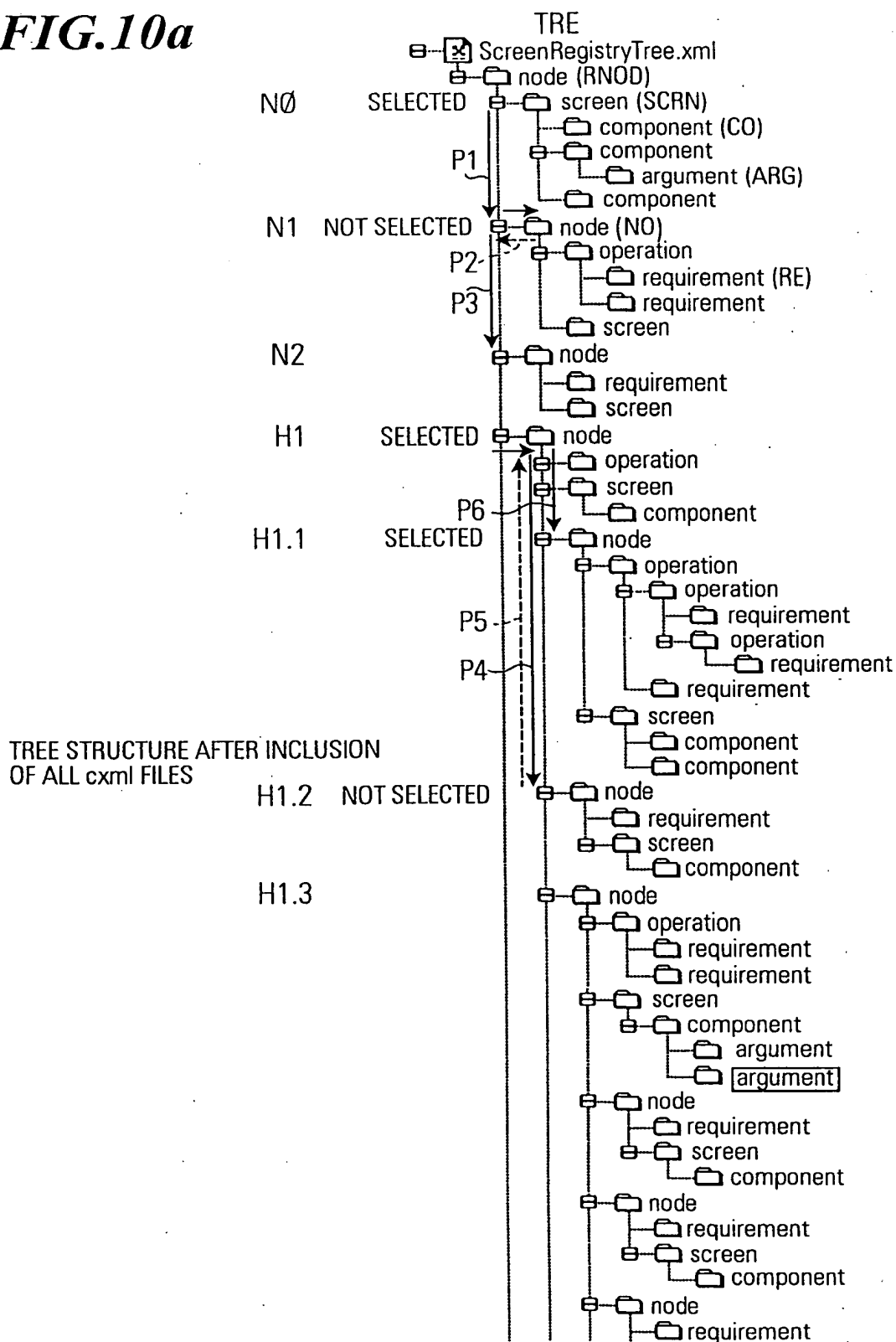


FIG. 9



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FIG. 10a



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FIG. 10b

xml file for main nodes

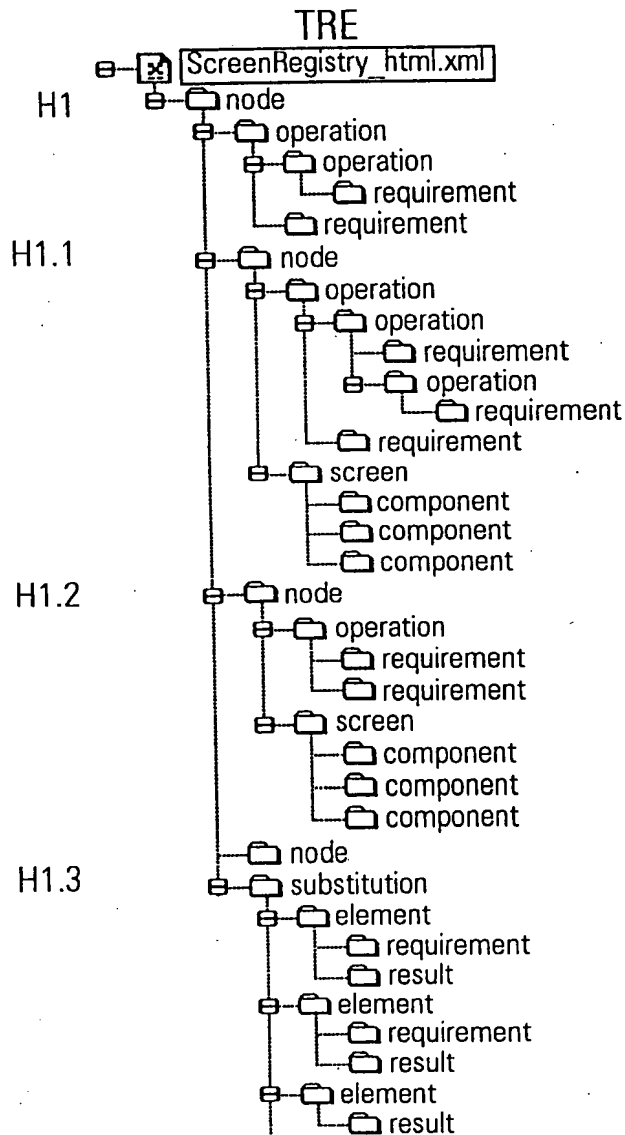
MAIN

```
<?xml version="1.0" encoding="ISO-8859-1"? >
<!-- screen definitions -->
- <node>
  <!-- default screen -->
  - <screen template="/html/HTMLTemplate.jsp" class="default">
    NO <component name="Title" value="www.mydomain.com" direct="true"/>
    - <component name="Background" value="/html/HTMLBackground.jsp"/>
      <argument name="picture" value="$BACKGROUND_PICTURE"/>
    </component>
    <component name="Error" value="/html/HTMLError.jsp"/>
  </screen>
  <!-- execute login -->
  - <node>
    <!-- RETYP -->
    N1 - <operation type="and">
      <requirement type="requestParameter" name="cmd"
        value="execute_login"/>
      <requirement type="executionEnvironment" name="loginBean"
        value="null"/>
    </operation>
    <screen template="/portal/login" class="login"/>
  </node>
  <!-- logout -->
  - <node>
    N2 <requirement type="requestParameter" name="cmd" value="logout"/>
    <screen template="/portal/logout" class="logout"/>
  </node>
  <!-- include screen definition files for different devices supported -->
  <include file="etc/screenregistries/portal/ScreenRegistry_wml.xml"/>
  <include file="etc/screenregistries/portal/ScreenRegistry_pqa.xml"/>
  <include file="etc/screenregistries/portal/ScreenRegistry_xul.xml"/>
  <include file="etc/screenregistries/portal/ScreenRegistry_html.xml"/>
</node>
```


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FIG. 10c

TREE VIEW FOR SOME HTML NODES OF THE SCREEN REGISTRY



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FIG.10d xml file of HTML nodes

HTML

```
<?xml version = "1.0" encoding = "ISO-8859-1"?>
<!-- Screen definitions for standard HTML devices ( MSIE,Netscape, ...) -->
<node>
  <operation type="or">
    <operation type="not">
      <requirement type="ccpp" name="Browser.CCPPAccept.text/html"
        value="null"/>
    </operation>
    <requirement type="requestHeaderParameter" name="user-agent"
      value="Mozilla"/>
    </operation>
  <!-- login page -->
  <node>
    <operation type="or">
      <operation type="and">
        <requirement type="executionEnvironment" name="loginBean"
          value="null"/>
        <operation type="not">
          <requirement type="requestParameter" name="cmd"
            value="execute_login"/>
        </operation>
      </operation>
      <requirement type="requestParameter" name="page" value="login"/>
    </operation>
    <screen ID="Login.Screen" template="/html/HTMLLoginTemplate.jsp"
      class="default">
      <component name="Title" value="HTMLLogin.title" direct="true"
        base="com.sun.star.portal.web.jsp.html"/>
      <component name="CurrentContent" value="/html/HTMLLogin.jsp"/>
      <component name="Error" value="/html/HTMLLError.jsp"/>
    </screen>
  </node>
  <!-- welcome page -->
  <node>
    <operation type="or">
      <requirement type="executionEnvironment"
        name="UniversalContentBrokerContent" value="null"/>
      <requirement type="resourceProperty" name="PresentationURL"
        value="staroffice.private:factory/desktop"/>
    </operation>
    <screen ID="Welcome.Screen" class="default">
      <component name="Title" value="HTMLWelcome.title" direct="true"
        base="com.sun.star.portal.web.jsp.html"/>
      <component name="Shortcuts" value="/html/HTMLShortcuts.jsp"/>
      <component name="CurrentContent"
        value="/html/HTMLWelcome.jsp"/>
    </screen>
  </node>
  <!-- more HTML nodes ... -->
  <node>
    <substitution name="$BACKGROUND_PICTURE">
      <element>
        <requirement type="userInformation" name="gender" value="f"/>
        <result value="HTMLWomensBackground.gif"/>
      </element>
    </substitution>
  </node>
</node>
</node>
```

file: //V:\pat\ScreenRegistry_html.xml

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FIG. 10e

HTML

```
<element>
- <element>
  <<requirement type="userinformation" name="gender" value="m"/>
  <result value="HTMLMensBackground.gif"/>
  <element>
- <element>
  <result value="HTMLdefaultBackground.gif"/>
  </element>
</substitution>
</node>
<!-- End standard HTML description -->
```

file: //N:\pat\ScreenRegistry_html.xml

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WML

xml FILE OF WML NODES

FIG. 10g

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- Screen definitions for WAP (WML) devices -->
<node>
- <operation type="or">
- <operation type="not">
- <requirement type="ccpp"
  name="Browser.CCPPAccept.text/vnd.wap.wml" value="null">
</operation>
<requirement type="requestHeaderParameter" name="user-agent"
  value="Wapalizer*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="Nokia*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="R380*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="ERKO UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="ALAV UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="SP01 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="T250 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="IM1K UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="MOT-CB/0.0.18 UP/4.0.10*"/>
<requirement type="requestHeaderParameter" name="user-agent"
  value="SH UP/4.0.10*"/>
</operation>
- <screen template="/wml/WMLTemplate.jsp" class="wml">
  <component name="Error" value="/wml/WMLError.jsp"/>
</screen>
<!-- login page -->
- <node>
- <operation type="or">
- <operation type="and">
  <requirement type="executionEnvironment" name="loginBean"
    value="null"/>
- <operation type="not">
  <requirement type="requestParameter" name="cmd"
    value="execute_login"/>
</operation>
</operation>
<requirement type="requestParameter" name="page" value="login"/>
</operation>
- <screen template="/wml/WMLLoginTemplate.jsp" class="login">
  <component name="Deck_1" value="/wml/WMLLogin.jsp"/>
  <component name="Error" value="/wml/WMLError.jsp"/>
</screen>
</node>
<!-- welcome page -->
- <node>
  <requirement type="executionEnvironment"
    name="UniversalContentBrokerContent" value="null"/>
- <screen class="wml">
  <component name="Deck_1" value="wml/WMLWelcome.jsp"/>
```

file: //V:\pat\ScreenRegistry_wml.xml

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FIG. 10h

WML

```
</screen >
</node>
<!-- module explorer -->
- <node>
- <operation type="or">
  <requirement type="resourceProperty" name="protocol"
    value="file:"/>
  <requirement type="resourceProperty" name="protocol"
    value="ftp:"/>
</operation>
- <screen class="wml">
- <component name="Deck_1" value="$WMLEXPLOER" >
  <argument name="explorertype" value="explorer"/>
  <argument name="title" value="WMLExplorer.documents"/>
</component>
</screen>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="viewPage"/>
- <screen class="wml">
  <component name="Action" value="/portal/viewpage"/>
- </screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="rename"/>
- <screen class="wml">
  <component name="Deck_1" value="WMLRename.jsp"/>
</screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd" value="delete"/>
- </screen class="wml">
  <component name="Action" value="/portal/delete"/>
</screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="execute_mail"/>
- <screen class="wml">
  <component name="Action" value="/portal/mail"/>
  <component name="Deck_1" value="$WMLEXPLOER" >
    <argument name="explorertype" value="explorer"/>
    <argument name="title" value="WMLExplorer.documents"/>
  </component>
  <component name="Error"
    value="/wml/WMLMailSendError.jsp"/>
</screen>
</node>
- <node>
  <requirement type="requestParameter" name="cmd"
    value="execute_new_folder"/>
- <screen class="wml">
  <component name="Action" value="/portal/newFolder"/>
</screen>
</node>
- <node>
```

file: //V:\pat\ScreenRegistry wml.xml

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FIG. 10i

WML

```
<requirement type="requestParameter" name="submodule" />
  value="menu"/>
- <screen template="/wml/WMLTemplate.jsp" class="contextmenu">
  <component name="Deck_1" value="/wml/WMLCommands.jsp"/>
</screen>
</node>
<node>
- <node>
  <!-- more WML nodes ... -->
</node>
- <substitution name="$WMLEXPLOER" >
  - <element>
    <requirement type="requestParameter" name="viewTypeExplorer"
      value="fileview"/>
    <result value="/wml/WMLFileView.jsp"/>
  </element>
  - <element>
    <result value="/wml/WMLFolderView.jsp" />
  </element>
</substitution>
</node>
<!-- End WAP (WML) description -->
```

file: //V:\pat\ScreenRegistry_wml.xml